

TITLE

ELECTRICALLY CONDUCTING ORGANIC POLYMER/NANOPARTICLE
COMPOSITES AND METHODS FOR USE THEREOF

ABSTRACT OF THE INVENTION

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Compositions are provided comprising aqueous dispersions of electrically conducting organic polymers and a plurality of nanoparticles. Films cast from invention compositions are useful as buffer layers in electroluminescent devices, such as organic light emitting diodes (OLEDs) and electrodes for thin film field effect transistors. Buffer layers containing nanoparticles have a much lower conductivity than buffer layers without nanoparticles. In addition, when incorporated into an electroluminescent (EL) device, buffer layers according to the invention contribute to higher stress life of the EL device.

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